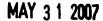
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DATE:

May 31, 2007

TO:

Examiner Unknown

Group Art Unit 1762

PHONE #:

FAX #:

571-273-8300

Application No.:

10/561,804

SPRIESTERSBACH et al.

OUR REF.: 3581.09US01

Applicant: Due Date:

None

FROM:

Curtis B. Herbert, Ph.D.

PHONE #:

612-605-1038

Attached please find the following for filing in the above-identified application.

(1) Communication; and

English translation of the PCT International Preliminary Report on Patentability (2)

(Chapter I of the Patent Cooperation Treaty) mailed June 22, 2006.

Respectfully_submitted

Curtis B. Herbert, Ph.D. Registration No. 43,443

CERTIFICATE OF FACSIMILE TRANSMISSION

I hereby certify that this paper is being transmitted by facsimile to the U.S. Patent and Trademark Office, Fax No. 571-273-8300 on the date shown below.

MAY 31.2007

Date

Curtis B. Herbert

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MAY 3 1 2007

PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the application of:

Attorney Docket No.: 3581.09US01

SPRIESTERSBACH et al.

Confirmation No.: 1109

Application No.:

10/561,804

Examiner: Unknown

Filed:

June 26, 2006

Group Art Unit: 1762

For:

MULTI-LAYERED SURFACE PROTECTION FOR REINFORCED CONCRETE

COMMUNICATION

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Applicants hereby submit an English translation of the PCT International Preliminary Report on Patentability (Chapter I of the Patent Cooperation Treaty) mailed June 22, 2006.

Respectfully submitted,

Curtis B. Herbert

Registration No. 45,443

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Dardi & Associates
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220 South 6th Street
Minneapolis, Minnesota 55402
Telephone: (612) 605-1038

Please grant any extension of time necessary for entry; charge any fee due to Deposit Account No. 50-3863.

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Curtis B. Herbert

PCT/EP2004/007217

PATENT COOPERATION TREATY

PCT

NOTIFICATION OF TRANSMITTAL
OF COPIES OF TRANSLATION
OF THE INTERNATIONAL PRELIMINARY REPORT
ON PATENTABILITY
(CHAPTER I OR CHAPTER II
OF THE PATENT COOPERATION TREATY)

(PCT Rules 44bis.3(c) and 72.2)

From the INTERNATIONAL BUREAU	
To: 7 C. 1 C. 1 C. S. C. S. P.	l:
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Date of mailing (day/month/year) 22 June 2006 (22.06.2006)	
Applicant's or agent's file reference 041170woMenn	IMPORTANT NOTIFICATION
International application No. PCT/EP2004/007217	International filing date (day/month/year) 02 July 2004 (02.07.2004)
Applicant	GRILLO-WERKE AG et al

١.	Transmittal	οſ	the	translation	to	the applicant.
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~	The International Bureau transmits herewith a copy of the Euglish translation of the international preliminary report on patentability (Chapter I).

The International Bureau transmits herewith a copy of the English translation of the international preliminary report on patentability (Chapter II).

2. Transmittal of the copy of the translation to the designated or elected Offices.

The International Bureau notifies the applicant that copies of that translation have been transmitted to the following designated or elected Offices requiring such translation:

None

The following designated or elected Offices, having waived the requirement for such a transmittal at this time, will receive copies of that translation from the International Bureau only upon their request:

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3. Reminder regarding translation into (one of) the official language(s) of the elected Office(s).

The applicant is reminded that, where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary report on patentability (Chapter II).

It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned within the applicable time limit (Rule 74.1). See Volume fl of the PCT Applicant's Guide for further details.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Genova 20. Switzerland Authorized officer

Ellen Moyse

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference 041170woMenn	FOR FURTHER ACTION	See item 4 below		
International application No. PCT/EP2004/007217	International filing date (day/month/year) 02 July 2004 (02.07.2004)	Priority date (day/month/year) 03 July 2003 (03.07.2003)		
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237				
Applicant GRILLO-WERKE AG				

1.	 This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis. 1(a). 				
2.	This REPORT consists of a total of 6 sheets, including this cover sheet.				
	In the attached sheets, any refer to the international preliminary	rence to the written opinion of report on patentability (Chapt	the International Searching Authority should be read as a reference er I) instead.		
3.	This report contains indications	relating to the following item	s:		
	Box No. I	Basis of the report			
	Box No. Π	Priority			
	Box No. ΠΙ	Non-establishment of opin applicability	nion with regard to novelty, inventive step and industrial		
	Box No. IV	Lack of unity of inventior	ı		
	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			
	Box No. VI	Certain documents cited			
	Box No. VII	Certain defects in the international application			
	Box No. VIII	Certain observations on the international application			
4.	4. The International Bureau will communicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44bis.2).				
			Date of issuance of this report 12 June 2008 (12.06.2006)		
	The International Bu 34, chemin des Co 1211 Geneva 20, S	alombetics	Authorized officer Ellen Moyse		
Facsi	mile No. +41 22 740 14 35	, ,,	Telephone No. +41 22 338 89 75		

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PATENT COOPERATION TREATY From the INTERNATIONAL SEARCHING AUTHORITY To: PCT WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) Date of mailing (day/month/year) Applicant's or agent's file reference FOR FURTHER ACTION 041170woMenn See paragraph 2 below International filing date (day/month/year) Priority date (day/month/year) International application No. PCT/EP2004/007217 02.07.2004 03.07.2003 International Patent Classification (IPC) or both national classification and IPC Applicant GRILLO-WERKE AG This opinion contains indications relating to the following items: Box No. I Basis of the opinion Box No. II Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. JII Box No. IV Lock of unity of invention Reasoned statement under Rule 43bis. I(a)(i) with regard to novelty, inventive step or industrial Box No. V applicability; citations and explanations supporting such statement Box No. VI Box No. VII Certain defects in the international application Box No. VIII Certain observations on the international application **FURTHER ACTION** If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPHA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(h) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of malling of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

Form PCT7ISA/237 (cineer sheet). (January 2004)

Name and mailing address of the ISMEP

Facsimile No.

For further options, see Form PCT/ISA/220.

For further details, see notes to Form PCT/ISA/220.

Authorized officer

Telephone No.

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/EP2004/007217

Box	x No. I Busis of this apinion
I.	With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
	This opinion has been established on the basis of a translation from the original language into the following language which is the language of a translation furnished for the purposes of international search (under
2.	Rule 12.3 and 23.1(b)). With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been exabilished on the basis of:
	a. type of material
	table(s) related to the sequence listing
	b. format of material
	in written format
	in computer readable form
	c. time of filing/furnishing
	contained in the International application as filed.
	filed together with the international application in computer readable form.
	Amished subsequently to this Authority for the purposes of search.
3.	In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filled or fivrnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filled or does not go beyond the application as filled as appropriate, were furnished.
d.	Additional comments:
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from PCT/ISA/037 (Box No. 1) (January 2014).

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

INTERNATIONAL SEARCHING ACTHORITY	FC1/EF2004/00/21/
Box No. 11 Priority	,
1. The following document has not yet been furnished:	
copy of the earlier application whose priority has been claimed (Rule 43bis.1 a	nd 66.7(u)).
translation of the earlier application whose priority has been claimed (Rule 43)	
Consequently it has not been possible to consider the validity of the priority claim. T the assumption that the relevant date in the claimed priority date.	
2. This opinion has been established as if no priority had been claimed due to the for (Rules 43bis.) and 64.1). Thus for the purposes of this opinion, the international fill relevant date.	et that the priority claim has been found invalid ling date indicated above is considered to be the
3. Additional observations, if necessary:	
	,
	•

WRITTEN OPINION OF THE
DITED NATIONAL STARCHING AUTHORITY

International application No.		
PCT/EP2004/0072	1	7

Box	No. V Rec	soned statement under R itions and explanations su	le 43bls.1(a)(i) with regard to novelty, inv porting such statement	entive step or industrial applicability;
ſ.	Statement		•	
Ì	Novelty (N)	Claims	1-17	YES
		Claims		NO
	Inventive step	(IS) Claims	1-17	'`YE\$
		Claims		NO .
1	Industrial app	dicability (IA) Claims	1-17	YES
		Claims		NO

- Citations and explanations:
 - 1. Reference is made to the following document:

D1: DE 197 48 105 C

Document D1 is considered to be closest prior art. It discloses a method for production of multi-layered surface protection for meinforced concrete, by thermal spray application, to the reinforced concrete, of a first layer composed of zinc or of zinc alloys. The zinc layer is electrically interconnected with the reinforcement and is also coated with a low-viscosity polyurethane resin (see claim 1). The polyurethane resin layer is applied so thinly that no coherent film is formed (see claim 2). Once the polyurethane layer has hardened, an epoxy.resin layer can also be applied (see claim 3).

The difference between the subject matter of the present independent claims 1 and 14 and the disclosure of D1 is that the low-viscosity polymer applied to the zinc layer forms a coherent film. The subject matter of the independent claims is therefore novel (PCT Article 33(2)).

The technical effect achieved via the application of the lowviscosity polymer in the form of a coherent film is that a) the pores are sealed and absorption of the binder during application of further layers is therefore inhibited, and b) penetration of air, moisture and substances injurious to a coating, for example alkaline components, from the substrates

Form PCT/ISA/237 (Box No. V). (January 2004)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/EP2004/007217

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability: distings and explanations supporting such statement.

Located under the layers into the layers located thereupon is inhibited.

Since the prior art does not render obvious the achievement of this

effect via the formation of the low-viscosity polymer layer in the form of a coherent film, the subject matter of the independent claims involves an inventive step (PCT Article 33(3)).

4. In relation to PCT Article 6, it should be noted that dependent claim 15 is not clearly defined because it comprises no additional feature over independent claim 14.